

Abstract

The present invention relates to a method for producing a corrosion-resistant and oxidation-resistant coating.

5 Furthermore, the present invention relates to a component part having such a coating.

According to the method according to the present invention, a component part made of a component part material and a slip
10 material are made available, the slip material, besides a binding agent, containing at least one metal powder, the metal powder being formed of at least 25 wt.% of at least one metal of the platinum group, and either being formed of jacketed powder cores, the powder cores being formed of at least one
15 metal of the platinum group; and the jacketing of the powder cores being formed of a material based on the same material as the component part material, or being formed of a metal powder alloy which, besides the at least one metal of the platinum group contains at least one material based on the same
20 material as the material of the component part. The slip material is applied at least from area to area onto the component part while forming a slip layer. The slip layer is then cured and dried. Subsequently, heat treatment takes place of the component part that is coated with the slip
25 material at least from area to area, in order to diffuse the slip layer into the component part.

(Fig. 1)